

digital

DD11-C

Engineering Drawings

Digital Equipment Corporation

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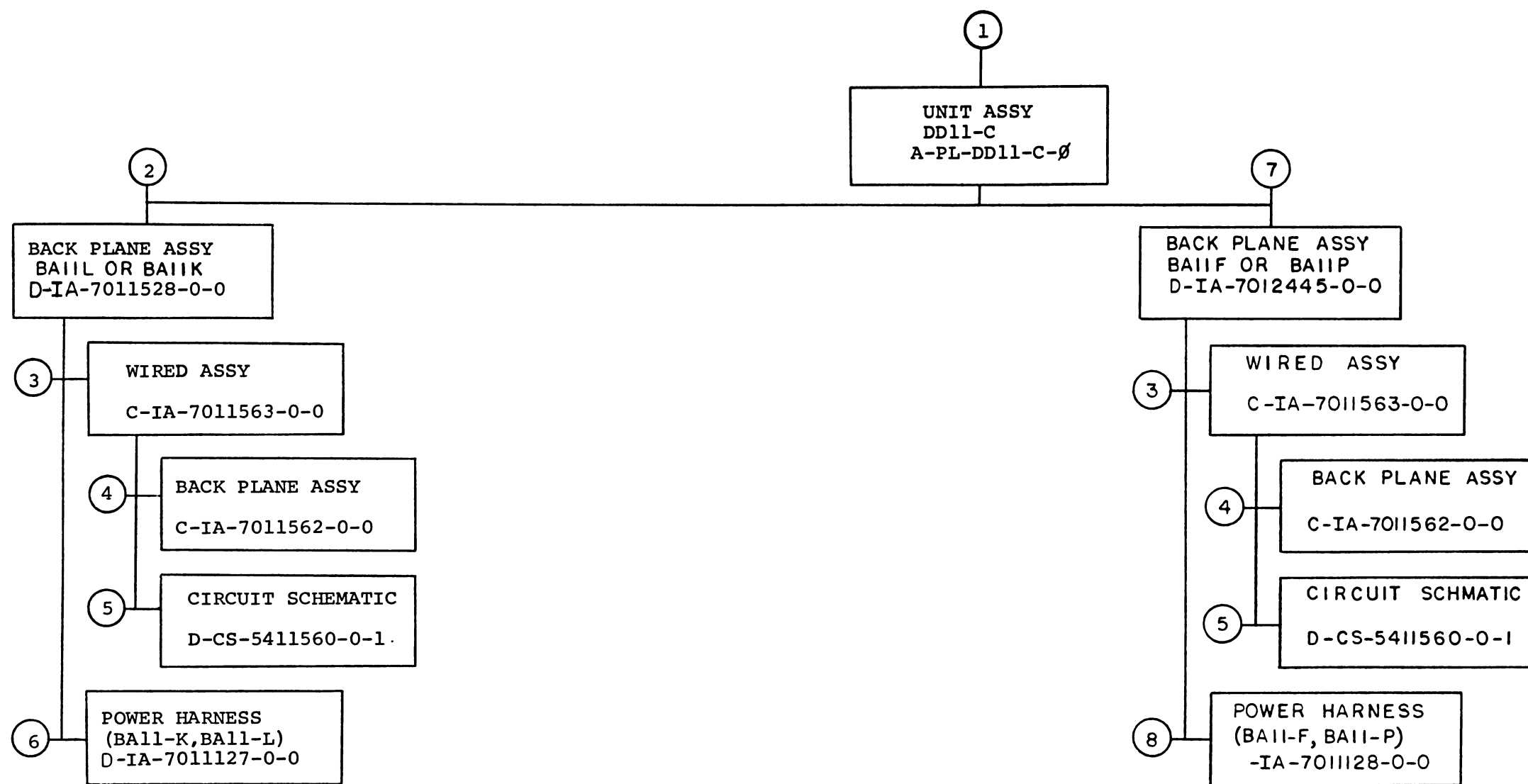
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SEQUENCE 70

NOTE: DD11CK assemblies are electrically incompatible with DD11-CF assemblies. A DD11-CK will work in BA11-L and BA11-K boxes. A DD11-CF will work in BA11-F and BA11-P boxes only.

EN-01062-1A-16-R972-(32)

REVISIONS	DATE	CHG. NO.	REV	DRAWING DIRECTORY DD11-C									
	5-76	DD11C-2	A										
	5-77	DD11C-3	B										
	USED ON OPTION/MODEL												
			DRN. D. HEALY		DATE 6/25/79								
			CHK'D. D. HEALY		DATE 6/25/79								
			PROJ ENG. R. BARRY		DATE 7/30/75								
			PROD. R.K.		DATE 8/18/75								
FIELD SERV.				DATE									
SHEET 1 OF 3				SIZE B	CODE DD	NUMBER DD11-C				REV B			
				DIST									



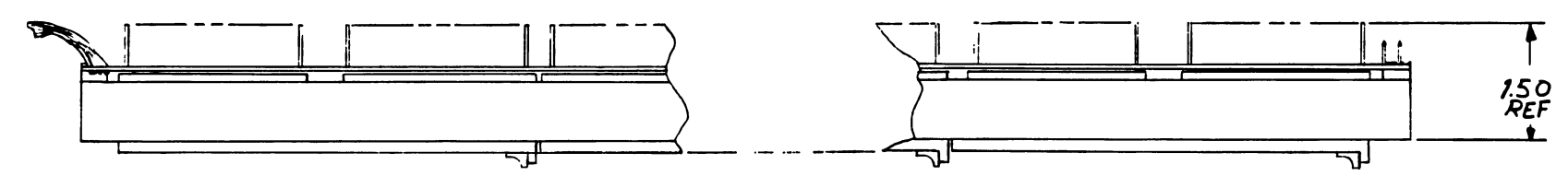
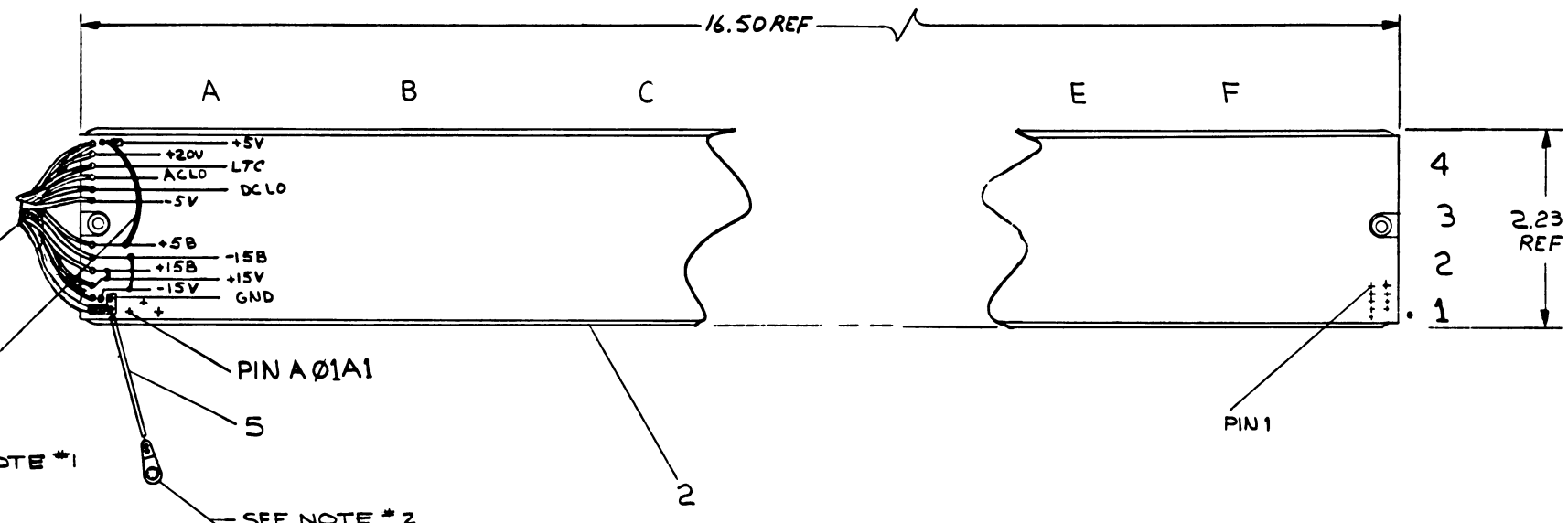
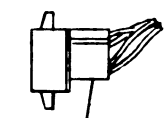
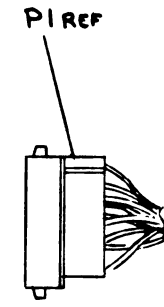
TITLE	SHEET 2 OF 3	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY DD11-C		B	DD	DD11-C	B

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WIRE TABLE					
ITEM NO	AWG	COLOR	FROM CONNECTION	TO CONNECTION	WITH
1	18	BLK	P2-1	GND	SOLDER
	18	BRN	P2-2	LTC	
	18	VIO	P2-3	DC LO	
	18	YEL	P2-4	AC LO	
	14	RED	P1-1	+5V	
	18	GRY	P1-2	+15	
	18	ORN	P1-3	+20V	
	14	RED	P1-4	+5V	
	18	WHT	P1-6 SEE NOTE 4	+15B SEE NOTE 4	
	14	BLK	P1-7	GND	
	14	BLK	P1-8	GND	
1	14	RED	P1-12	+5B	SOLDER

WIRE TABLE					
ITEM NO	AWG	COLOR	FROM CONNECTION	TO CONNECTION	WITH
1	18	BLU	P1-13	-15V	SOLDER
1	18	BRN	P1-14	-5V	
1	18	GRN	P1-15	-15B	
			SEE NOTE 4	SEE NOTE 4	
1	18	GRN	P1-6	+15B	
			SEE NOTE 5	SEE NOTE 5	
1	18	WHT	P1-15	-15B	SOLDER
			SEE NOTE 5	SEE NOTE 5	

- NOTES:
1. WHEN THE DD11-CK'S USED WITH A BAIL-K EXPANSION BOX WITHOUT BATTERY BACK UP (I.E., NO 785 NOR 7850), INSTALL THE THREE JUMPERS SHOWN:
1) -15 TO -15B
2) +15 TO +15B
3) +5 TO +5B (SEE NOTE 3)
USE #22 SHIELDED BUS WIRE ON SIDE 2 THIS WILL PROVIDE POWER TO THE MOS MEMORY VOLTAGE RAILS.
 2. INSTALL SHAKEPROOF SOLDER LUG (ITEM #6) UNDER THE SYSTEM UNIT MOUNTING SCREW TO PROVIDE A LOGIC GROUND TO CHASSIS GROUND CONNECTION
 3. BAIL-K'S THAT USE THE 5410864-YA-1 POWER DISTRIBUTION (I.E., 11/34A, 11/34 WITH FP11-AU, AND SOME 11/04'S) AND HAVE MORE THAN ONE DD11-CK (OR AN ADDITIONAL DD11-DK) CAN ONLY HAVE THE +5 TO +5B JUMPER IN ONE OF THE BACK PANELS. IF TWO OF THE BACK PANELS HAVE THE JUMPER IN, THE +5V REGULATORS MAY BE CONNECTED TOGETHER. TYPICALLY THIS JUMPER IS IN THE FIRST BACK PANEL, BUT IT MAY BE PLACED IN ONE OF THE OTHER BACK PANELS IF DEEMED NECESSARY FOR POWER REQUIREMENTS.
 4. WHEN USING REV. C HARNESS USE THESE POINT-TO-POINT CONNECTIONS.
 5. WHEN USING REV B OR EARLIER HARNESS, USE THESE POINT-TO-POINT CONNECTIONS.



1	SHAKEPROOF SOLD. LUG	9008150	6
2	WIRE #18 AWG STRD (BLK)	9107360-00	5
6	TUBING #22 (BLUE)	9107256-06	4
6	WIRE, BUS #22	9107560-01	3
1	WIRED ASSY DD11-C	D-IA-7011563-0-0	2
1	HARNESS POWER	D-IA-7011127-0-0	1

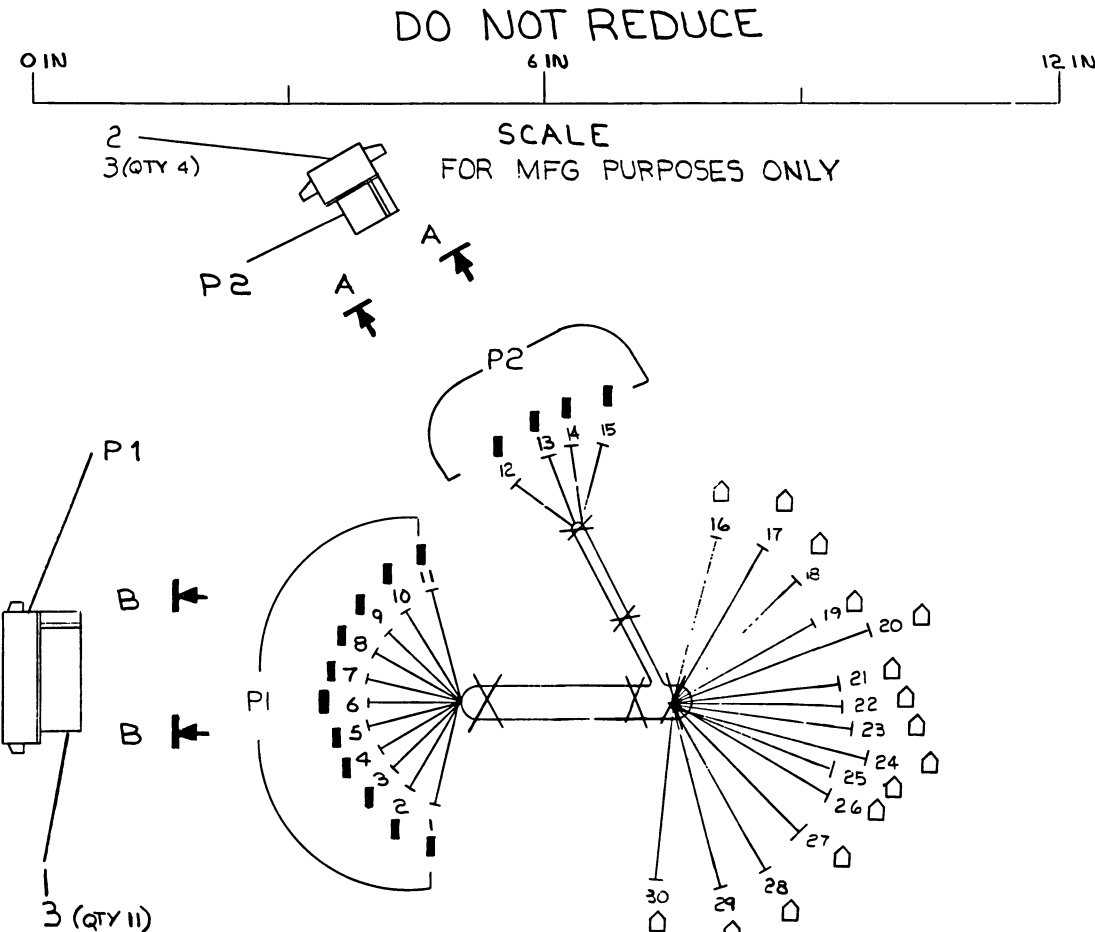
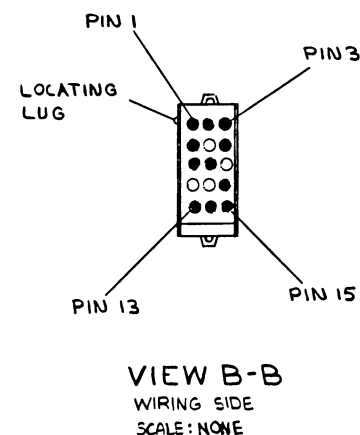
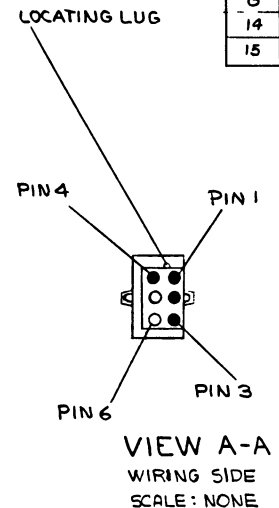
REV.	DATE	BY	CHKD.	APP.
1	11/13/75	R. BARRY		
2	11/13/75	R. BARRY		
3	11/13/75	R. BARRY		
4	11/13/75	R. BARRY		
5	11/13/75	R. BARRY		
6	11/13/75	R. BARRY		
7	11/13/75	R. BARRY		
8	11/13/75	R. BARRY		

QUANTITY & VARIATION	DESCRIPTION	DWG. PART NO.	ITEM NO.
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
ANGLES ± 30°	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES	
SURFACE QUALITY IN	MEDIUM	0.001	0.002
MICROINCHES	PREFERRED	0.001	0.002
THIRD ANGLE PROJECTION	DRN. 11/13/75	FIRST USED ON BAIL-K	
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D. 11/13/75	TITLE	
DO NOT SCALE DWG	ENG. R. BARRY	BACK PLANE ASS'Y DD11-CK	
MATERIAL SEE PARTS LIST	PROJ. ENG. R. BARRY	SIZE CODE	NUMBER
FINISH	PROD. 11/13/75	D IA	7011528-0-0
		SHEET	1 of 1

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WIRE TABLE									
ITEM NO	AWG	COLOR	FROM			TO			SIGNAL
			POINT	CONNECTION	TERM	POINT	CONNECTION	TERM	
7	18	GRN	1	PI-15	ITEM 3	28		STRIP &	-15B
8	18	BRN	2	PI-14		19		TIN	-5V
9	18	BLU	3	PI-13		24			-15V
6	14	RED	4	PI-12		26			+5B
5	14	BLK	5	PI-8		29			GND
5	14	BLK	6	PI-7		27			GND
10	18	WHT	7	PI-6		25			+15B
6	14	RED	8	PI-4		17			+5V
11	18	ORN	9	PI-3		18			+20V
12	18	GRY	10	PI-2		23			+15V
6	14	RED	11	PI-1		16			+5V
13	18	BLK	12	P2-1		20			GND
8	18	BRN	13	P2-2		22			LTC
14	18	VIO	14	P2-3		21		STRIP &	DC LO
15	18	YEL	15	P2-4	ITEM 3	30		TIN	AC LO

NOTES:
1. USE TIE, CABLE (X) WHERE INDICATED.



A/R	WIRE #18 STRD YEL	9107360-44	15
A/R	WIRE #18 STRD VIO	9107360-77	14
A/R	WIRE #18 STRD BLK	9107360-00	13
A/R	WIRE #18 STRD GRY	9107360-88	12
A/R	WIRE #18 STRD ORN	9107360-33	11
A/R	WIRE #18 STRD GRN	9107360-55	10
A/R	WIRE #18 STRD BLU	9107360-66	9
A/R	WIRE #18 STRD BRN	9107360-11	8
A/R	WIRE #18 STRD WHT	9107360-99	7
A/R	WIRE #14 STRD RED	9107370-22	6
A/R	WIRE #14 STRD BLK	9107370-00	5
X	5 TIE WRAP PANDUIT	9007880	4
15	PIN MALE	1209378-01	3
1	CONN 6 PIN MAT LOCK	1209351-06	2
1	CONN 15 PIN MAT LOCK	1209351-15	1

SYN	DESCRIPTION	DWG./PART NO.	ITEM NO.
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
QUANTITY & VARIATION	ANGLES ±0° 30'	GLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES
	SURFACE QUALITY IN	MEDIUM PREFERRED	OVER 0 TO 1.2 OVER 1.2 TO 2.0 OVER 2.0 TO 4.0 OVER 4.0 TO 12.0 OVER 12.0 TO 40.0 OVER 40.0 TO 80.0
THIRD ANGLE PROJECTION	DRN <i>[Signature]</i> 6/1/75	FIRST USED ON DDII-CK	digital
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D <i>[Signature]</i> 7/1/75	TITLE HARNESS DDII-CK	
DO NOT SCALE DWG	ENG. <i>[Signature]</i> 7-30-75	NEXT HIGHER ASSY.	
MATERIAL SEE PARTS LIST	PROJ. ENG. <i>[Signature]</i> 7-30-75	SIZE CODE D IA 701127-0-0	
FINISH	PROD. <i>[Signature]</i> 8/1/75	NUMBER 1	
	SHEET 1 OF 1	REV. C	

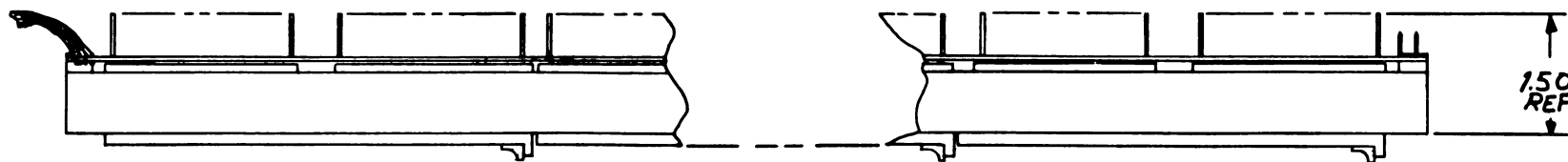
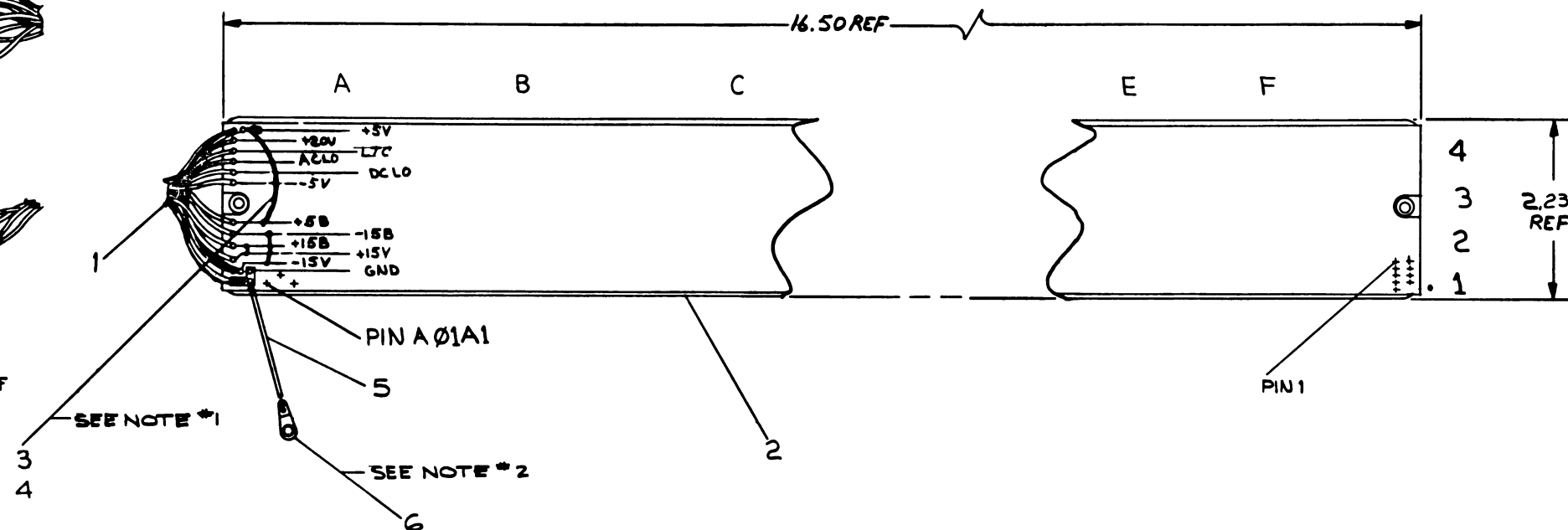
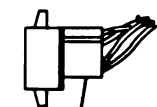
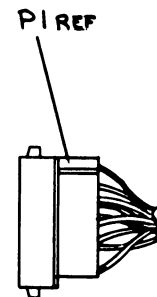
REV.	CHANGE NO.	DATE	BY	APP.
1	701127-00001	17-FEB-74	R. BARRY	
2	701127-00002	22-OCT-76	D. BARRY	
3	DDII-CK-00003		D. BARRY	
4			D. BARRY	

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WIRE TABLE					
ITEM NO	DESCRIPTION	FROM	TO	WITH	
1	18 BLK	P2-1	GND	SOLDER	
	18 BRN	P2-2	LTC		
	18 VIO	P2-3	DC LO		
	18 YEL	P2-4	AC LO		
	14 RED	P1-1	+5V		
	18 GRN	P1-2	+15		
	18 ORN	P1-3	+20V		
	14 RED	P1-4	+5V		
	18 WHT	P1-6 SEE NOTE 4	+15B SEE NOTE 4		
	14 BLK	P1-7	GND		
	14 BLK	P1-8	GND		
1	14 RED	P1-10	+5B	SOLDER	

WIRE TABLE					
ITEM NO	DESCRIPTION	FROM	TO	WITH	
1	18 BLU	P1-13	-15V	SOLDER	
1	18 BRN	P1-14	-5V		
1	18 GRN	P1-15	-15B		
		SEE NOTE 4	SEE NOTE 4		
1	18 GRN	P1-6	+15B		
		SEE NOTE 5			
1	18 WHT	P-15	-15B	SOLDER	
		SEE NOTE 5			

- NOTES:
1. WHEN THE DDII-CF IS USED WITH A BAII-F EXPANSION BOX WITHOUT BATTERY BACK-UP, INSTALL THE THREE JUMPERS SHOWN:
1) -15 TO -15B
2) +15 TO +15B
3) +5 TO +5B
USE #22 SHIELDED BUS WIRE ON SIDE 2. THIS WILL PROVIDE POWER TO THE MOS MEMORY VOLTAGE RAILS.
 2. INSTALL SHAKEPROOF SOLDER LUG (ITEM #6) UNDER THE SYSTEM UNIT MOUNTING SCREW TO PROVIDE A LOGIC GROUND TO CHASSIS GROUND CONNECTION
 3. THE BAII-F POWER HARNESS ITEM #1 IS NOT ELECTRICALLY COMPATIBLE WITH THE BAII-L OR BAII-K MOUNTING BOX.
 4. WHEN USING REV. A HARNESS USE THESE POINT-TO-POINT CONNECTIONS.
 5. WHEN USING REV. Ø HARNESS USE THESE POINT-TO-POINT CONNECTIONS.



1	SHAKEPROOF SOLDER LUG	9008150	6
2	WIRE #18AWG STRD (BLK)	9107360-00	5
3	TUBING #22 (BLUE)	9107256-06	4
6	WIRE, BUS #22	9107560-01	3
1	WIRED ASSY DDII-C	D-IA-7011563-0-0	2
1	HARNESS, POWER F BOX	E-IA-7011128-0-0	1

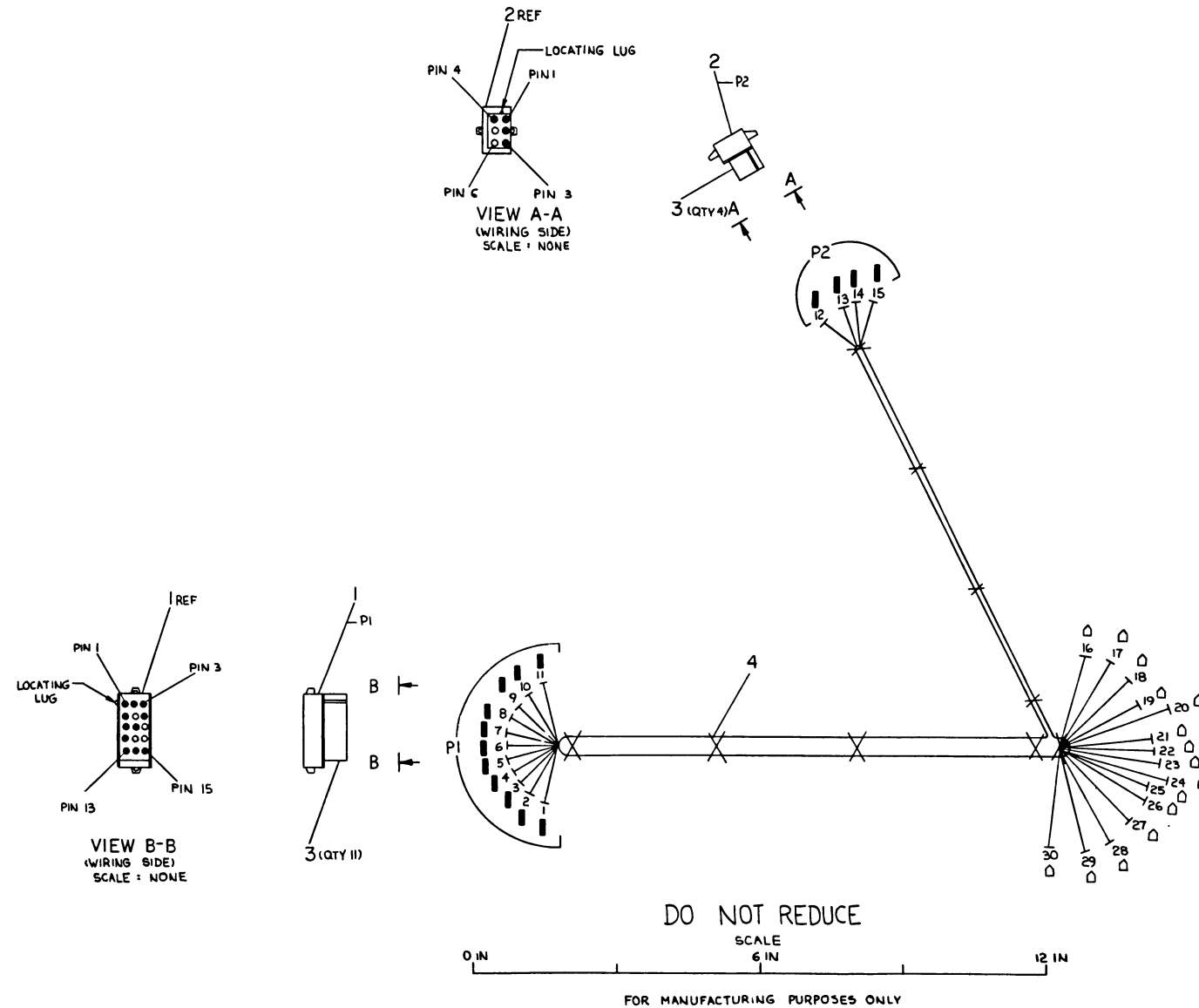
DESCRIPTION		DWG. PART NO.		ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				
ANGLES 90° 30°		NOMINAL DIMENSION RANGE INCHES		
SURFACE QUALITY	IN	OVER 0	OVER 1.3	OVER 4.3
		0.3	1.3	4.3
MEDIUM	IN	0.004	0.008	0.012
		0.004	0.008	0.012
PREFERRED	IN	0.004	0.008	0.012
		0.004	0.008	0.012

THIRD ANGLE PROJECTION	DRN: [Signature]	FIRST USED ON: BAII-F
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D BY: [Signature]	
DO NOT SCALE DWG	ENG: [Signature]	
MATERIAL: SEE PARTS LIST	PROJ. ENR: [Signature]	
FINISH: [Signature]	PROCK: [Signature]	
TITLE: BACK PLANE ASS'Y DDII-CF		
SIZE: A-PL-DDII-C-Ø		
SCALE: NONE		
SHEET: 1 OF 1		
DWT.:		
NUMBER:		
REV.:		

REV.	CHG.	DATE	BY	APP.
1				
2				
3				
4				
5				
6				
7				
8				

WIRE TABLE									
ITEM	DESCRIPTION			FROM		TO			SIGNAL
NO	AWG	COLOR	POINT	CONNECTION	TERM	POINT	CONNECTION	TERM	
7	18	GRN	1	PI-15	ITEM 3	18		STRIP &	-15 B
8	18	BRN	2	PI-14		28		-5V	
9	18	BLU	3	PI-13		24		TIN	-15V
6	14	RED	4	PI-10		26			+5 B
5	14	BLK	5	PI-9		29			GND
8	14	BLK	6	PI-7		27			GND
10	18	WHT	7	PI-6		25			+15 B
6	14	RED	8	PI-4		17			+5V
11	18	ORN	9	PI-3		18			+20V
12	18	GRY	10	PI-2		23			+15V
6	14	RED	11	PI-1		16			+5V
13	18	BLK	12	P2-1		20			GND
8	18	BRN	13	P2-2		22			LTC
14	18	VIO	14	P2-3		21		STRIP &	DC LO
15	18	VEL	15	P2-4	ITEM 3	30		TIN	AC LO

NOTES:
1. USE TIE, CABLE (X) WHERE INDICATED.



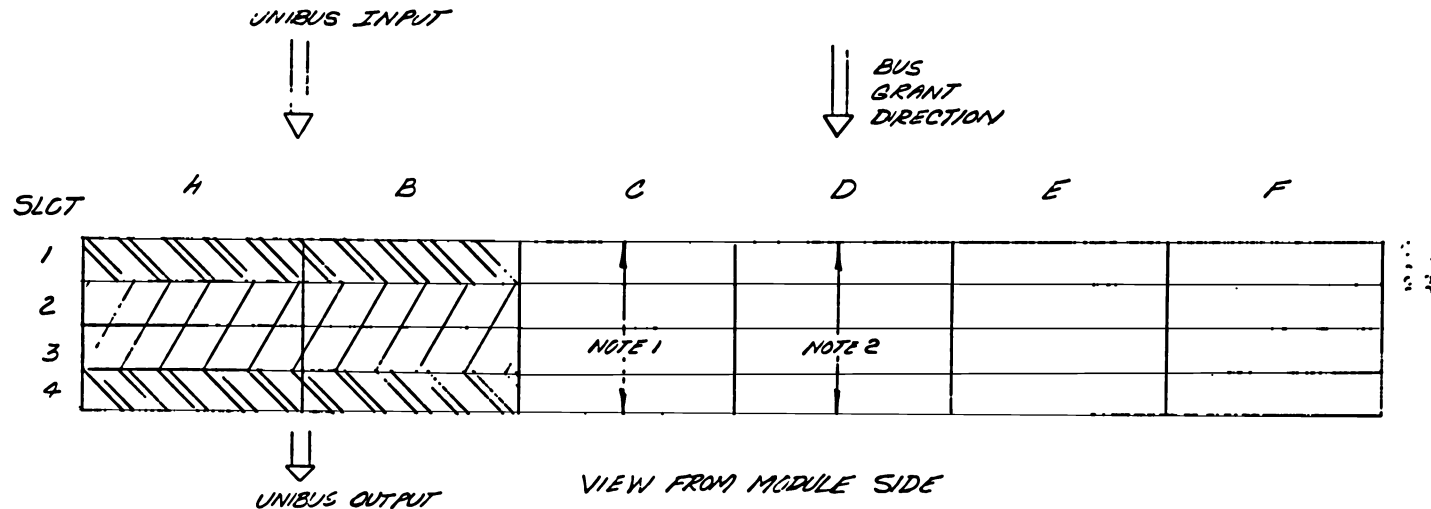
	NR	WIRE, #18	STRD	YEL	9107360-44	15
	NR	WIRE, #18	STRD	VIO	9107360-77	14
	NR	WIRE, #18	STRD	BLK	9107360-00	13
	NR	WIRE, #18	STRD	GRY	9107360-88	12
	NR	WIRE, #18	STRD	ORN	9107360-33	11
	NR	WIRE, #18	STRD	GRN	9107360-55	10
	NR	WIRE, #18	STRD	BLU	9107360-66	9
	NR	WIRE, #18	STRD	BRN	9107360-11	8
	NR	WIRE, #18	STRD	WHT	9107360-99	7
	NR	WIRE, #14	STRD	RED	9107370-22	6
	NR	WIRE, #14	STRD	BLK	9107370-00	5
X		9	TIE	WRAP, PANDUIT	9007880-01	4
	15	PIN, MALE			1209378-01	3
	1	CONN, 6 PIN	MAT	LOCK	1209351-06	2
	1	CONN, 6 PIN	MAT	LOCK	1209351-15	1

SYMBOL		QUANTITY & VARIATION		DESCRIPTION		DINN/PART NO.		ITEM NO.			
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS							
				ANGLE OF VIEW		SHAPE OF ADDRESS		FINISH		TOLERANCE	
				SURFACE QUALITY		MATERIAL		HARDNESS		TOLERANCE	
				INCLUDES		DIMENSIONS		TOLERANCE		TOLERANCE	
THIRD ANGLE PROJECTION				DIM. & TOL.		FINISH		PRINT USED			
				DIM. & TOL.		FINISH		DDII-CF			
DO NOT SCALE DRG				NEXT HIGHER ARRY.		TITLE		HARNESS DDII-CF			
MATERIAL				SCALE		SIZE CODE		NUMBER			
SEE PARTS LIST				SHEET		DIA		701128-0-0			
FINISH				OF		DET		REV A			

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SLOT 1 (A & B) IS EITHER THE BEGINNING OF THE UNIBUS (M7263 CPU MODULE) OR THE UNIBUS CABLE INPUT (BC11A)

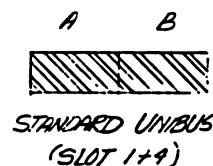
SLOT 4 (A & B) IS EITHER THE TERMINATION OF THE UNIBUS OR THE UNIBUS OUTPUT CABLE (BC11A)



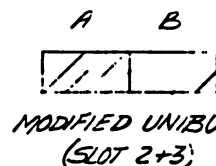
CABLE FROM KY11-LA OPERATORS CONSOLE, USED WITH (M7263) PDP1184 CPU MODULE ONLY, TERMINATES HERE.

NOTES:

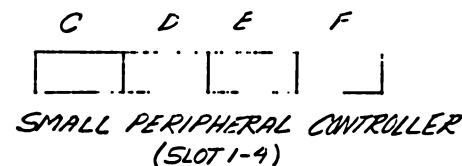
1. REMOVE CA1 TO CB1 WIRE WRAP JUMPER TO INSTALL AN NPR OPTION IN ANY SPC SLOT.
2. G727 REQUIRED IN ANY UNUSED SPC SLOT TO PROVIDE BUS GRANT CONTINUITY.
3. GRANT DIRECTION IS SLOT 1 TO SLOT 4.
4. USE M9202 TO INTERCONNECT SYSTEM UNITS INSTEAD OF M920 M9202 IS A 2 FT. UNIBUS JUMPER CABLE USED TO DISTRIBUTE UNIBUS LOADING.
5. M9302 (SACK/TERM) AND M930 (TERM) MUST NEVER BE INSTALLED IN ANY SLOT OTHER THAN SLOT 4 (A & B). POWER SUPPLY VOLTAGES WILL BE SHORTED OUT IF THESE TERMINATORS ARE MOUNTED IN THE MODIFIED UNIBUS SLOTS.
6. MODIFIED UNIBUS SECTION CARRIES CORE AND MOS MEMORY VOLTAGE RAILS AND MEMORY PARITY CONTROL SIGNALS INSTEAD OF BUS GRANT AND SOME GND SIGNALS THAT ARE CONTAINED IN STANDARD UNIBUS SLOTS.
7. INSTALL M9312 IN SLOT 2 ONLY FOR GOOD UNIBUS TERMINATION.
8. EITHER M9312 OR M9301 MAYBE USED BUT NOT BOTH.



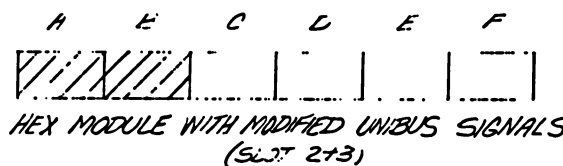
DUAL MODULES WHICH PLUG INTO STANDARD UNIBUS SLOTS ONLY:
BC11A UNIBUS CABLE
M9302 SACK/TERM. (NOTES)
M920 (NOTE 4)
M930 (NOTE 5)
M9202 (NOTE 4)



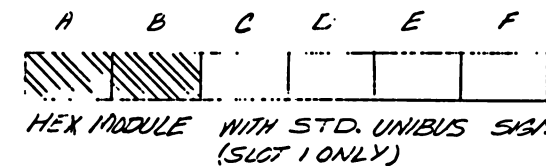
DUAL MODULES WHICH PLUG INTO THE MODIFIED UNIBUS ONLY:
M9312 BOOT/TERM. (SLOT 2 ONLY)
M9306 TERM.
M9850 PARITY CONT.



ANY S.P.C. OPTION



HEX MODULES THAT PLUG INTO MODIFIED UNIBUS ONLY
M7847 MOS MEMORY (M511-EP-JP)
MM11-BP,CP,DP OR YP CORE MEMORY CORE



M7263 PDP1184 CPU MODULE

GENERAL

ANY HEX MODULE THAT MEETS THE FOLLOWING REQUIREMENTS CAN BE MOUNTED IN THESE SLOTS.

1. THOSE PINNED TO TAKE SIGNALS FROM MODIFIED UNIBUS (A & B) WITH THE BUS GRANTS TAKEN FROM SPC SLOTS 1a: ABOVE
2. THOSE PINNED TO TAKE SIGNALS FROM STANDARD SPC PINNING WITH THE EXCEPTION OF POWER FROM (A & B) 1a: SPECIAL OPTIONS

REV.	CHANGE NO.	DATE	BY	CHK
1	DD11-C-00001	1/14/75	R. BARRY	
2	DD11-C-00004	1/14/75	R. BARRY	
3	DD11-C-00005	1/14/75	R. BARRY	
4	DD11-C-00006	1/14/75	R. BARRY	
5	DD11-C-00007	1/14/75	R. BARRY	
6	DD11-C-00008	1/14/75	R. BARRY	
7	DD11-C-00009	1/14/75	R. BARRY	
8	DD11-C-00010	1/14/75	R. BARRY	

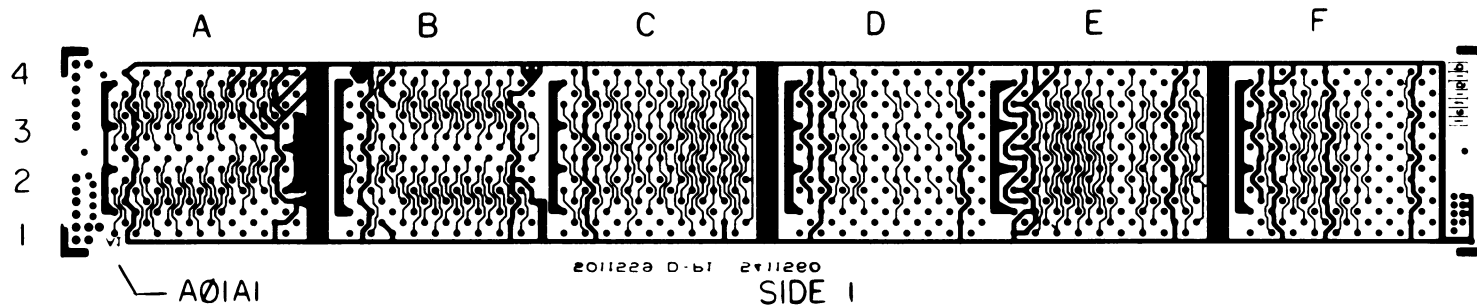
THIRD ANGLE PROJECTION	QUANTITY & VARIATION	DESCRIPTION	DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				
ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES		
SURFACE QUALITY IN	MEDIUM	OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0
MICROINCHES	PREFERRED	±0.004	±0.008	±0.012
		±0.016	±0.025	±0.04
		±0.048	±0.075	±0.1
		±0.125	±0.2	±0.3
		±0.375	±0.625	±1.0
		±1.25	±2.0	±3.0
		±2.5	±5.0	±10.0
		±5.0	±10.0	±20.0
		±10.0	±20.0	±40.0
		±20.0	±40.0	±80.0
		±40.0	±80.0	±160.0
		±80.0	±160.0	±320.0
		±160.0	±320.0	±640.0
		±320.0	±640.0	±1280.0
		±640.0	±1280.0	±2560.0
		±1280.0	±2560.0	±5120.0
		±2560.0	±5120.0	±10240.0
		±5120.0	±10240.0	±20480.0
		±10240.0	±20480.0	±40960.0
		±20480.0	±40960.0	±81920.0
		±40960.0	±81920.0	±163840.0
		±81920.0	±163840.0	±327680.0
		±163840.0	±327680.0	±655360.0
		±327680.0	±655360.0	±1310720.0
		±655360.0	±1310720.0	±2621440.0
		±1310720.0	±2621440.0	±5242880.0
		±2621440.0	±5242880.0	±10485760.0
		±5242880.0	±10485760.0	±20971520.0
		±10485760.0	±20971520.0	±41943040.0
		±20971520.0	±41943040.0	±83886080.0
		±41943040.0	±83886080.0	±167772160.0
		±83886080.0	±167772160.0	±335544320.0
		±167772160.0	±335544320.0	±671088640.0
		±335544320.0	±671088640.0	±1342177280.0
		±671088640.0	±1342177280.0	±2684354560.0
		±1342177280.0	±2684354560.0	±5368709120.0
		±2684354560.0	±5368709120.0	±10737418240.0
		±5368709120.0	±10737418240.0	±21474836480.0
		±10737418240.0	±21474836480.0	±42949672960.0
		±21474836480.0	±42949672960.0	±85899345920.0
		±42949672960.0	±85899345920.0	±171798691840.0
		±85899345920.0	±171798691840.0	±343597383680.0
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		±343597383680.0	±687194767360.0	±1374389534720.0
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		±1374389534720.0	±2748779069440.0	±5497558138880.0
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		±193428131138340667952988160.0	±386856262276681335905976320.0	±773712524553362671811952640.0
		±386856262276681335905976320.0	±773712524553362671811952640.0	±1547425049106725343623905280.0
		±773712524553362671811952640.0	±1547425049106725343623905280.0	±3094850098213450687247810560.0
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		±6189700196426901374495621120.0	±12379400392853802748991242240.0	±24758800785707605497982484480.0
		±12379400392853802748991242240.0	±24758800785707605497982484480.0	±49517601571415210995964968960.0
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		±101412048018258352119736256430080.0	±202824096036516704239472512860160.0	±405648192073033408478945025720320.0
		±202824096036516704239472512860160.0	±405648192073033408478945025720320.0	±811296384146066816957890051440640.0
		±405648192073033408478945025720320.0	±811296384146066816957890051440640.0	±1622592768292133633915780102881280.0
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		±1622592768292133633915780102881280.0	±3245185536584267267831560205762560.0	±6490371073168534535663120411525120.0
		±3245185536584267267831560205762560.0	±6490371073168534535663120411525120.0	±12980742146337069071326240823050240.0
		±6490		

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NOTES:

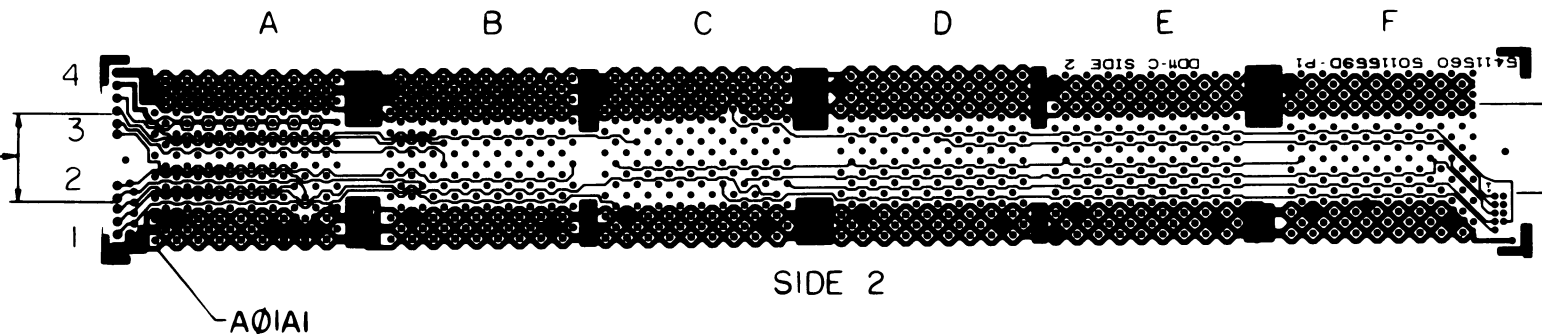
NOTES:

1. AH DRAWING MADE FROM SIDE 1.
2. HORIZON WIRE RUNS 1-20 MUST BE DRESSED INTO CENTER CHANNEL MARKED ON THIS DRAWING.
3. WIRES, (TWISTED PAIRS) ARE GREY AND VIOLET.
4. GREY IS GND. VIOLET IS SIGNAL LINE.
5. SIDE 1 IS DARK. SIDE 2 IS LIGHT.



RUN	FROM	TO	SIGNAL	RUN	FROM	TO	SIGNAL	RUN	FROM	TO	SIGNAL	RUN	FROM	TO	SIGNAL	RUN	FROM	TO	SIGNAL
1	B02V1	E01J1	SSYN L	5	A02P2	F01D1	BBSY L	9	B02F2	C01N1	DCLO	13	B01B1	D01P2	BG5A	17	A01V1	D01K2	BG7A
1	B02T1	E01C2	GND	5	A02T1	F01C2	GND	9	B02C2	C01T1	GND	13	B01C2	D02T1	GND LEV2	17	A01V2	D02C2	GND
2	B03V1	E04J1	SSYN L	6	A03P2	F04D1	BBSY L	10	B03F2	C04N1	DCLO	14	B04B1	D04R2	BG5E	18	A04V1	D04L2	BG7E
2	B03T1	E04C2	GND	6	A03T1	F04C2	GND	10	B03C2	C04T1	GND	14	B04C2	D03T1	GND LEV2	18	A04V2	D03C2	GND
3	B02V1	E01E1	MSYN L	7	A02A1	D01L1	INIT L	11	B01E2	D01S2	BG4A	15	B01A1	D01M2	BG6A	19	A01U1	C01A1	NPGL
3	B02T1	E01C2	GND LEV2	7	A02C2	D01T1	GND	11	B01C2	D01T1	GND	15	B01B2	D02T1	GND	19	A04T1	C01C2	GND
4	B03V1	E04E1	MSYN C	8	A03A1	D04L1	INIT L	12	B04E2	D04T2	BG4E	16	B04A1	D04N2	BG6E	20	A04U1	C04B1	NPGL
4	B03T1	E04C2	GND LEV2	8	A03C2	D04T1	GND	12	B04C2	D04T1	GND	16	B04B2	D03T1	GND	20	A04T1	C04C2	GND

LAY TWISTED WIRE IN THIS AREA



REF	AWT REV STATUS	A-WT-7011563	5
REF	MODULE ECO HISTORY	B-MH-5411560-0-6	4
REF	ASSY/ DRILLING HOLE LAYOUT	D-AH-5411560-0-5	3
REF	X-Y COORDINATE HOLE LOCATION	K-CO-5411560-0-4	2
I	ETCHED CIRCUIT BOARD	5011559	1
QTY	REF. DESIGNATION	DESCRIPTION	PART NO. ITEM NO.
PARTS LIST			
ETCH BOARD REV. DPI			
DATE 6-22-75			
DATE 6/26/75			
DATE 6-26-75			
DATE 7-2-75			
DATE 4-25-76			
R. PETERSON			
NEXT HIGHER ASSY			
D-1A-7414331-0-0			
SCALE NONE			
SHEET 1 OF 1			
DST.			
SIZE CODE NUMBER REV			
D CS 5411560-0-1 D			
CIRCUIT SCHEMATIC			
digital			

IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE		
IC PIN LOCATIONS		

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DIGITAL EQUIP. CORP.

REVISIONS	
CHK	CHANGE NO.
8	DDIIC-00001
1-6-76	
R. BARRY	
Richard Barry 1-13-76	

DEC FORM NO.
DRB 109

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.	
DDIIC		PARTS LIST			
DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
CHKD.	DATE				
ENG.	DATE				
PROJ. ENG.	DATE				
PROD.	DATE				
NEXT HIGHER ASSEMBLY		TITLE WIRE LIST DDIIC			
B-DD-DDIIC					
SCALE					
SHEET		SIZE	CODE	NUMBER	REV.
1 OF 1		K	WL	DDIIC-1	A

PAGE 1
RUN
NUMBER

DD11-C,PP		HND288.V23(23) 05/24/74										12-MAR-75		8143		PAGE 6	
RUN	NAME	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW	RV	PG	Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN	NUMBER
BG4 A			R01E2		1-01							1					46
BG4 A			D01S2		1-02												46
BG4 A					1									8-6/8			46
BG4 B			D01T2		1-01	H						1		P	H TO WHERE		47
BG4 B			D02S2		1-02										TO HERE		47
BG4 B					1									2-6/8			47
BG4 C			D02T2		1-01	H						1		P	H TO WHERE		48
BG4 C			D03S2		1-02										TO HERE		48
BG4 C					1									2-6/8			48
BG4 D			D03T2		1-01	H						1		P	H TO WHERE		49
BG4 D			D04S2		1-02										TO HERE		49
BG4 D					1									2-6/8			49
BG4 E			R04E2		1-01							1					50
BG4 E			D04T2		1-02												50
BG4 E					1									9-0/8			50
BG5 A			R01B1		1-01							1					51
BG5 A			D01P2		1-02												51
BG5 A					1									9-0/8			51
BG5 B			D01R2		1-01	H						1		P	H TO WHERE		52
BG5 B			D02P2		1-02										TO HERE		52
BG5 B					1									2-6/8			52
BG5 C			D02R2		1-01	H						1		P	H TO WHERE		53
BG5 C			D03P2		1-02										TO HERE		53
BG5 C					1									2-6/8			53
BG5 D			D03R2		1-01	H						1		P	H TO WHERE		54
BG5 D			D04P2		1-02										TO HERE		54
BG5 D					1									2-6/8			54
BG5 E			R04R1		1-01							1					55
BG5 E			D04R2		1-02												55
BG5 E					1									9-2/8			55
BG6 A			R01A1		1-01							1					56
BG6 A			D01M2		1-02												56
BG6 A					1									9-0/8			56
BG6 B			D01M2		1-01	H						1		P	H TO WHERE		57
BG6 B			D02M2		1-02										TO HERE		57
BG6 B					1									2-6/8			57

DD11-C,PP		HND288.V23(23) 05/24/74										12-MAR-75		8143		PAGE 7	
RUN	NAME	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW	RV	PG	Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN	NUMBER
BG6 C			D02N2		1-01	H						1		P	H TO WHERE		58
BG6 C			D03M2		1-02										TO HERE		58
BG6 C					1									2-6/8			58
BG6 D			D03N2		1-01	H						1		P	H TO WHERE		59
BG6 D			D04M2		1-02										TO HERE		59
BG6 D					1									2-6/8			59
BG6 E			R04A1		1-01	H						1		P	H TO WHERE		60
BG6 E			D04N2		1-02										TO HERE		60
BG6 E					1									9-2/8			60
BG7 A			A01V1		1-01							1					61
BG7 A			D01K2		1-02												61
BG7 A					1									9-2/8			61
BG7 B			D01L2		1-01	H						1		P	H TO WHERE		62
BG7 B			D02K2		1-02										TO HERE		62
BG7 B					1									2-6/8			62
BG7 C			D02L2		1-01	H						1		P	H TO WHERE		63
BG7 C			D03K2		1-02										TO HERE		63
BG7 C					1									2-6/8			63
BG7 D			D03L2		1-01	H						1		P	H TO WHERE		64
BG7 D			D04K2		1-02										TO HERE		64
BG7 D					1									2-6/8			64
BG7 E			A04V1		1-01							1					65
BG7 E			D04L2		1-02												65
BG7 E					1									9-4/8			65
BR4 L			R01N2		1-01 *	H						2		P	HAND WIRE		66
BR4 L			R02D2		1-02 *							1			TO HERE		66
BR4 L			D01H2		1-03 *	H						2		P	HAND WIRE		66
BR4 L			D02H2		1-04 *	H						1		P	HAND WIRE		66
BR4 L			D03H2		1-05 *	H						2		P	HAND WIRE		66
BR4 L			D04H2		1-06 *							1			TO HERE		66
BR4 L			R03D2		1-07 *	H						2		P	HAND WIRE		66
BR4 L			R04D2		1-08 *										TO HERE		66
BR4 L					1									30-2/8			66

D011-C.P.		HND200.V23(23) 05/24/74										12-MAR-75		8143		PAGE 8	
RUN	NAME	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW	RV	PG	Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN NUMBER	
BR5	L		B01C1		1-01 *	H						2		P	HAND WIRE	67	
BR5	L		B02C1		1-02 *							1			TO HERE	67	
BR5	L		D01F2		1-03 *	H						2		P	HAND WIRE	67	
BR5	L		D02F2		1-04 *	H						1		P	HAND WIRE	67	
BR5	L		D03F2		1-05 *	H						2		P	HAND WIRE	67	
BR5	L		D04F2		1-06 *							1			TO HERE	67	
BR5	L		B03C1		1-07 *	H						2		P	HAND WIRE	67	
BR5	L		B04C1		1-08 *										TO HERE	67	
BR5	L				1										30-0/8	67	
BR6	L		A01U2		1-01 *							2				68	
BR6	L		A02U2		1-02 *							1				68	
BR6	L		D01E2		1-03 *	H						2		P	HAND WIRE	68	
BR6	L		D02E2		1-04 *	H						1		P	HAND WIRE	68	
BR6	L		D03E2		1-05 *	H						2		P	HAND WIRE	68	
BR6	L		D04E2		1-06 *							1			TO HERE	68	
BR6	L		A03U2		1-07 *							2				68	
BR6	L		A04U2		1-08 *											68	
BR6	L				1										31-6/8	68	
BR7	L		A01T2		1-01 *	H						2		P	HAND WIRE	69	
BR7	L		A02T2		1-02 *							1			TO HERE	69	
BR7	L		D01D2		1-03 *	H						2		P	HAND WIRE	69	
BR7	L		D02D2		1-04 *	H						1		P	HAND WIRE	69	
BR7	L		D03D2		1-05 *	H						2		P	HAND WIRE	69	
BR7	L		D04D2		1-06 *							1			TO HERE	69	
BR7	L		A03T2		1-07 *	H						2		P	HAND WIRE	69	
BR7	L		A04T2		1-08 *										TO HERE	69	
BR7	L				1										31-6/8	69	
BUS A00	L		B01H2		1-01 *	H						2		P	HAND WIRE	70	
BUS A00	L		B02H2		1-02 *							1			TO HERE	70	
BUS A00	L		E01H2		1-03 *	H						2		P	HAND WIRE	70	
BUS A00	L		E02H2		1-04 *	H						1		P	HAND WIRE	70	
BUS A00	L		E03H2		1-05 *	H						2		P	HAND WIRE	70	
BUS A00	L		E04H2		1-06 *							1			TO HERE	70	
BUS A00	L		B03H2		1-07 *	H						2		P	HAND WIRE	70	
BUS A00	L		B04H2		1-08 *										TO HERE	70	
BUS A00	L				1										34-2/8	70	

DD11-C,F0		HND208,V23(23) 05/24/74										12-MAR-75		0143		PAGE 9	
RUN	NAME	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW	RV	PG	Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN NUMBER	
BUS	A01 L		B01H1		1-01 *	H						2		P	HAND WIRE	71	
BUS	A01 L		B02H1		1-02 *							1			TO HERE	71	
BUS	A01 L		E01H1		1-03 *	H						2		P	HAND WIRE	71	
BUS	A01 L		F02H1		1-04 *	H						1		P	HAND WIRE	71	
BUS	A01 L		F03H1		1-05 *	H						2		P	HAND WIRE	71	
BUS	A01 L		E04H1		1-06 *							1			TO HERE	71	
BUS	A01 L		B03H1		1-07 *	H						2		P	HAND WIRE	71	
BUS	A01 L		B04H1		1-08 *										TO HERE	71	
BUS	A01 L				1										34-2/8	71	
BUS	A02 L		B01J2		1-01 *	H						2		P	HAND WIRE	72	
BUS	A02 L		B02J2		1-02 *							1			TO HERE	72	
BUS	A02 L		E01F1		1-03 *	H						2		P	HAND WIRE	72	
BUS	A02 L		E02F1		1-04 *	H						1		P	HAND WIRE	72	
BUS	A02 L		E03F1		1-05 *	H						2		P	HAND WIRE	72	
BUS	A02 L		E04F1		1-06 *							1			TO HERE	72	
BUS	A02 L		B03J2		1-07 *	H						2		P	HAND WIRE	72	
BUS	A02 L		B04J2		1-08 *										TO HERE	72	
BUS	A02 L				1										34-0/8	72	
BUS	A03 L		B01J1		1-01 *	H						2		P	HAND WIRE	73	
BUS	A03 L		B02J1		1-02 *							1			TO HERE	73	
BUS	A03 L		E01V2		1-03 *	H						2		P	HAND WIRE	73	
BUS	A03 L		E02V2		1-04 *	H						1		P	HAND WIRE	73	
BUS	A03 L		E03V2		1-05 *	H						2		P	HAND WIRE	73	
BUS	A03 L		E04V2		1-06 *							1			TO HERE	73	
BUS	A03 L		B03J1		1-07 *	H						2		P	HAND WIRE	73	
BUS	A03 L		B04J1		1-08 *										TO HERE	73	
BUS	A03 L				1										37-0/8	73	
BUS	A04 L		B01K2		1-01 *	H						2		P	HAND WIRE	74	
BUS	A04 L		B02K2		1-02 *							1			TO HERE	74	
BUS	A04 L		E01U2		1-03 *	H						2		P	HAND WIRE	74	
BUS	A04 L		F02U2		1-04 *	H						1		P	HAND WIRE	74	
BUS	A04 L		F03U2		1-05 *	H						2		P	HAND WIRE	74	
BUS	A04 L		E04U2		1-06 *							1			TO HERE	74	
BUS	A04 L		B03K2		1-07 *	H						2		P	HAND WIRE	74	
BUS	A04 L		B04K2		1-08 *										TO HERE	74	
BUS	A04 L				1										36-2/8	74	

0D11-C.PM		HND208.V23(23) 05/24/74										12-MAR-75	8143	PAGE 10		
RUN	NAME	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	OPAW	RV	PG	Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN NUMBER
BUS	A05 L		B01K1		1-01 *	H						2		P	HAND WIRE	75
BUS	A05 L		B02K1		1-02 *							1			TO HERE	75
BUS	A05 L		E01V1		1-03 *	H						2		P	HAND WIRE	75
BUS	A05 L		E02V1		1-04 *	H						1		P	HAND WIRE	75
BUS	A05 L		E03V1		1-05 *	H						2		P	HAND WIRE	75
BUS	A05 L		E04V1		1-06 *							1			TO HERE	75
BUS	A05 L		B03K1		1-07 *	H						2		P	HAND WIRE	75
BUS	A05 L		B04K1		1-08 *										TO HERE	75
BUS	A05 L				1										36-6/8	75
BUS	A06 L		B01L2		1-01 *	H						2		P	HAND WIRE	76
BUS	A06 L		B02L2		1-02 *							1			TO HERE	76
BUS	A06 L		E01U1		1-03 *	H						2		P	HAND WIRE	76
BUS	A06 L		E02U1		1-04 *	H						1		P	HAND WIRE	76
BUS	A06 L		E03U1		1-05 *	H						2		P	HAND WIRE	76
BUS	A06 L		E04U1		1-06 *							1			TO HERE	76
BUS	A06 L		B03L2		1-07 *	H						2		P	HAND WIRE	76
BUS	A06 L		B04L2		1-08 *										TO HERE	76
BUS	A06 L				1										36-0/8	76
BUS	A07 L		B01L1		1-01 *	H						2		P	HAND WIRE	77
BUS	A07 L		B02L1		1-02 *							1			TO HERE	77
BUS	A07 L		F01P2		1-03 *	H						2		P	HAND WIRE	77
BUS	A07 L		E02P2		1-04 *	H						1		P	HAND WIRE	77
BUS	A07 L		E03P2		1-05 *	H						2		P	HAND WIRE	77
BUS	A07 L		E04P2		1-06 *							1			TO HERE	77
BUS	A07 L		B03L1		1-07 *	H						2		P	HAND WIRE	77
BUS	A07 L		B04L1		1-08 *										TO HERE	77
BUS	A07 L				1										35-2/8	77
BUS	A08 L		B01M2		1-01 *	H						2		P	HAND WIRE	78
BUS	A08 L		B02M2		1-02 *							1			TO HERE	78
BUS	A08 L		E01N2		1-03 *	H						2		P	HAND WIRE	78
BUS	A08 L		E02N2		1-04 *	H						1		P	HAND WIRE	78
BUS	A08 L		E03N2		1-05 *	H						2		P	HAND WIRE	78
BUS	A08 L		E04N2		1-06 *							1			TO HERE	78
BUS	A08 L		B03M2		1-07 *	H						2		P	HAND WIRE	78
BUS	A08 L		B04M2		1-08 *										TO HERE	78
BUS	A08 L				1										34-6/8	78

DD11-C,PW		HND288,V23(23) 05/24/74										12-MAR-75	8143	PAGE 12		
RUN	NAME	A/P	PIN	ORDER	DAY -	Q	DRAW	RV	PG	Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN
			NAME	PIN	ORDER											NUMBER
BUS	A13 L		B01P1		1-01 *	H						2		P	HAND WIRE	03
BUS	A13 L		B02P1		1-02 *							1			TO HERE	03
BUS	A13 L		E01K2		1-03 *	H						2		P	HAND WIRE	03
BUS	A13 L		E02K2		1-04 *	H						1		P	HAND WIRE	03
BUS	A13 L		E03K2		1-05 *	H						2		P	HAND WIRE	03
BUS	A13 L		E04K2		1-06 *							1			TO HERE	03
BUS	A13 L		B03P1		1-07 *	H						2		P	HAND WIRE	03
BUS	A13 L		E04P1		1-08 *										TO HERE	03
BUS	A13 L				1										33-4/8	03
BUS	A14 L		B01R2		1-01 *	H						2		P	HAND WIRE	04
BUS	A14 L		B02R2		1-02 *							1			TO HERE	04
BUS	A14 L		E01K1		1-03 *	H						2		P	HAND WIRE	04
BUS	A14 L		E02K1		1-04 *	H						1		P	HAND WIRE	04
BUS	A14 L		E03K1		1-05 *	H						2		P	HAND WIRE	04
BUS	A14 L		E04K1		1-06 *							1			TO HERE	04
BUS	A14 L		B03R2		1-07 *	H						2		P	HAND WIRE	04
BUS	A14 L		E04R2		1-08 *										TO HERE	04
BUS	A14 L				1										33-0/8	04
BUS	A15 L		B01R1		1-01 *	H						2		P	HAND WIRE	05
BUS	A15 L		B02R1		1-02 *							1			TO HERE	05
BUS	A15 L		E01D2		1-03 *	H						2		P	HAND WIRE	05
BUS	A15 L		E02D2		1-04 *	H						1		P	HAND WIRE	05
BUS	A15 L		E03D2		1-05 *	H						2		P	HAND WIRE	05
BUS	A15 L		E04D2		1-06 *							1			TO HERE	05
BUS	A15 L		B03R1		1-07 *	H						2		P	HAND WIRE	05
BUS	A15 L		B04R1		1-08 *										TO HERE	05
BUS	A15 L				1										32-0/8	05
BUS	A16 L		B01S2		1-01 *	H						2		P	HAND WIRE	06
BUS	A16 L		B02S2		1-02 *							1			TO HERE	06
BUS	A16 L		E01E2		1-03 *	H						2		P	HAND WIRE	06
BUS	A16 L		E02E2		1-04 *	H						1		P	HAND WIRE	06
BUS	A16 L		E03E2		1-05 *	H						2		P	HAND WIRE	06
BUS	A16 L		E04E2		1-06 *							1			TO HERE	06
BUS	A16 L		B03S2		1-07 *	H						2		P	HAND WIRE	06
BUS	A16 L		B04S2		1-08 *										TO HERE	06
BUS	A16 L				1										31-6/8	06

DD11-C,P0		HND200,V23(23) 05/24/74										12-MAR-75		8143		PAGE 14	
RUN	NAME	A/P	PIN	ORDER	BAY -	Q	DRAW	RV	PG	Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN	NUMBER
			NAME	PIN	ORDER												
BUS D02 L JMP			C02U2		1-01							1				92	
BUS D02 L JMP			F02E2		1-02											92	
BUS D02 L JMP					1									8-6/8		92	
BUS D03 L			F01L1		1-01	H						2	P		H TO WHERE	93	
BUS D03 L			F02L1		1-02	H						1	P		H TO WHERE	93	
BUS D03 L			F03L1		1-03	H						2	P		H TO WHERE	93	
BUS D03 L			F04L1		1-04										TO HERE	93	
BUS D03 L					1									8-2/8		93	
BUS D03 L			A01E2		1-01 *	H						2	P		HAND WIRE	94	
BUS D03 L			A02E2		1-02 *							1			TO HERE	94	
BUS D03 L			C01T2		1-03 *	H						2	P		HAND WIRE	94	
BUS D03 L			C02T2		1-04 *	H						1	P		HAND WIRE	94	
BUS D03 L			C03T2		1-05 *	H						2	P		HAND WIRE	94	
BUS D03 L			C04T2		1-06 *							1			TO HERE	94	
BUS D03 L			A03E2		1-07 *	H						2	P		HAND WIRE	94	
BUS D03 L			A04E2		1-08 *										TO HERE	94	
BUS D03 L					1									32-2/8		94	
BUS D03 L JMP			C02T2		1-01							1				95	
BUS D03 L JMP			F02L1		1-02											95	
BUS D03 L JMP					1									9-6/8		95	
BUS D04 L			F01N2		1-01	H						2	P		H TO WHERE	96	
BUS D04 L			F02N2		1-02	H						1	P		H TO WHERE	96	
BUS D04 L			F03N2		1-03	H						2	P		H TO WHERE	96	
BUS D04 L			F04N2		1-04										TO HERE	96	
BUS D04 L					1									8-2/8		96	
BUS D04 L			A01E1		1-01 *	H						2	P		HAND WIRE	97	
BUS D04 L			A02E1		1-02 *							1			TO HERE	97	
BUS D04 L			C01N2		1-03 *	H						2	P		HAND WIRE	97	
BUS D04 L			C02N2		1-04 *	H						1	P		HAND WIRE	97	
BUS D04 L			C03N2		1-05 *	H						2	P		HAND WIRE	97	
BUS D04 L			C04N2		1-06 *							1			TO HERE	97	
BUS D04 L			A03E1		1-07 *	H						2	P		HAND WIRE	97	
BUS D04 L			A04E1		1-08 *										TO HERE	97	
BUS D04 L					1									31-8/8		97	
BUS D04 L JMP			C02N2		1-01							1				98	
BUS D04 L JMP			F02N2		1-02											98	
BUS D04 L JMP					1									10-2/8		98	

DD11-C,P0		HND200,V23(23) 05/24/74										12-MAR-75		8143		PAGE 15	
RUN	NAME	A/P	PIN	ORDER	BAY -	Q	DRAW	RV	PG	Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN	NUMBER
			NAME	PIN	ORDER												
BUS D05 L			F01F1		1-01	H						2	P		H TO WHERE	99	
BUS D05 L			F02F1		1-02	H						1	P		H TO WHERE	99	
BUS D05 L			F03F1		1-03	H						2	P		H TO WHERE	99	
BUS D05 L			F04F1		1-04										TO HERE	99	
BUS D05 L					1									8-2/8		99	
BUS D05 L			A01F2		1-01 *	H						2	P		HAND WIRE	100	
BUS D05 L			A02F2		1-02 *							1			TO HERE	100	
BUS D05 L			C01P2		1-03 *	H						2	P		HAND WIRE	100	
BUS D05 L			C02P2		1-04 *	H						1	P		HAND WIRE	100	
BUS D05 L			C03P2		1-05 *	H						2	P		HAND WIRE	100	
BUS D05 L			C04P2		1-06 *							1			TO HERE	100	
BUS D05 L			A03F2		1-07 *	H						2	P		HAND WIRE	100	
BUS D05 L			A04F2		1-08 *										TO HERE	100	
BUS D05 L					1									31-2/8		100	
BUS D05 L JMP			C02P2		1-01							1				101	
BUS D05 L JMP			F02F1		1-02											101	
BUS D05 L JMP					1									9-4/8		101	
BUS D06 L			F01F2		1-01	H						2	P		H TO WHERE	102	
BUS D06 L			F02F2		1-02	H						1	P		H TO WHERE	102	
BUS D06 L			F03F2		1-03	H						2	P		H TO WHERE	102	
BUS D06 L			F04F2		1-04										TO HERE	102	
BUS D06 L					1									8-2/8		102	
BUS D06 L			A01F1		1-01 *	H						2	P		HAND WIRE	103	
BUS D06 L			A02F1		1-02 *							1			TO HERE	103	
BUS D06 L			C01V2		1-03 *	H						2	P		HAND WIRE	103	
BUS D06 L			C02V2		1-04 *	H						1	P		HAND WIRE	103	
BUS D06 L			C03V2		1-05 *	H						2	P		HAND WIRE	103	
BUS D06 L			C04V2		1-06 *							1			TO HERE	103	
BUS D06 L			A03F1		1-07 *	H						2	P		HAND WIRE	103	
BUS D06 L			A04F1		1-08 *										TO HERE	103	
BUS D06 L					1									32-4/8		103	
BUS D06 L JMP			C02V2		1-01							1				104	
BUS D06 L JMP			F02F2		1-02											104	
BUS D06 L JMP					1									8-6/8		104	
BUS D07 L			F01H1		1-01	H						2	P		H TO WHERE	105	
BUS D07 L			F02H1		1-02	H						1	P		H TO WHERE	105	
BUS D07 L			F03H1		1-03	H						2	P		H TO WHERE	105	
BUS D07 L			F04H1		1-04										TO HERE	105	
BUS D07 L					1									8-2/8		105	

D011-C,P0		HND288,V23(23)		05/24/74												12-MAR-75	0143	PAGE 16
RUN NAME	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW RV	PG Y	X	Z	REMARKS		LENGTH	EXCEPTIONS	RUN NUMBER				
BUS D07 L		A01H2		1-01 *	H				2		P		HAND WIRE	106				
BUS D07 L		A02H2		1-02 *					1				TO HERE	106				
BUS D07 L		C01M2		1-03 *	H				2		P		HAND WIRE	106				
BUS C07 L		C02M2		1-04 *	H				1		P		HAND WIRE	106				
BUS D07 L		C03M2		1-05 *	H				2		P		HAND WIRE	106				
BUS D07 L		C04M2		1-06 *					1				TO HERE	106				
BUS D07 L		A03H2		1-07 *	H				2		P		HAND WIRE	106				
BUS D07 L		A04H2		1-08 *									TO HERE	106				
BUS D07 L				1								30-2/8		106				
BUS D07 L JMP		C02M2		1-01					1					107				
BUS D07 L JMP		F02H1		1-02										107				
BUS D07 L JMP				1								10-0/8		107				
BUS D08 L		F01K1		1-01	H				2		P		H TO WHERE	108				
BUS D08 L		F02K1		1-02	H				1		P		H TO WHERE	108				
BUS D08 L		F03K1		1-03	H				2		P		H TO WHERE	108				
BUS D08 L		F04K1		1-04									TO HERE	108				
BUS D08 L				1								8-2/8		108				
BUS D08 L		A01H1		1-01 *	H				2		P		HAND WIRE	109				
BUS D08 L		A02H1		1-02 *					1				TO HERE	109				
BUS D08 L		C01L2		1-03 *	H				2		P		HAND WIRE	109				
BUS D08 L		C02L2		1-04 *	H				1		P		HAND WIRE	109				
BUS D08 L		C03L2		1-05 *	H				2		P		HAND WIRE	109				
BUS D08 L		C04L2		1-06 *					1				TO HERE	109				
BUS D08 L		A03H1		1-07 *	H				2		P		HAND WIRE	109				
BUS D08 L		A04H1		1-08 *									TO HERE	109				
BUS D08 L				1								30-0/8		109				
BUS D08 L JMP		C02L2		1-01					1					110				
BUS D08 L JMP		F02K1		1-02										110				
BUS D08 L JMP				1								10-4/8		110				
BUS D09 L		A01J2		1-01 *	H				2		P		HAND WIRE	111				
BUS D09 L		A02J2		1-02 *					1				TO HERE	111				
BUS D09 L		C01K2		1-03 *	H				2		P		HAND WIRE	111				
BUS D09 L		C02K2		1-04 *	H				1		P		HAND WIRE	111				
BUS D09 L		C03K2		1-05 *	H				2		P		HAND WIRE	111				
BUS D09 L		C04K2		1-06 *					1				TO HERE	111				
BUS D09 L		A03J2		1-07 *	H				2		P		HAND WIRE	111				
BUS D09 L		A04J2		1-08 *									TO HERE	111				
BUS D09 L				1								29-6/8		111				

DD11-C,P0 RUN NAME	HND200.V23(23) 05/24/74 A/P PIN ORDER BAY - NAME PIN ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	12-MAR-75 LENGTH	8143 EXCEPTIONS	PAGE 20 RUN NUMBER
C1 L	B01T2	1-01 *	H		2				
C1 L	B02T2	1-02 *			1			HAND WIRE TO HERE	133
C1 L	E01F2	1-03 *	H		2			HAND WIRE	134
C1 L	E02F2	1-04 *	H		1			HAND WIRE	134
C1 L	E03F2	1-05 *	H		2			HAND WIRE	134
C1 L	E04F2	1-06 *			1			TO HERE	134
C1 L	B03T2	1-07 *	H		2			HAND WIRE	134
C1 L	B04T2	1-08 *						TO HERE	134
C1 L		1					31-6/8		134
D BG IN	D04U2	1-01			1				135
D BG IN	F04B1	1-02							135
D BG IN		1					5-6/8		135
D BG OUT	D04V2	1-01			1				136
D BG OUT	F04A1	1-02							136
D BG OUT		1					5-6/8		136
D BR OUT	D04J2	1-01			1				137
D BR OUT	F04P1	1-02			2				137
D BR OUT	F04U2	1-03							137
D BR OUT		1					11-4/8		137
D IN	D04H1	1-01			1				138
D IN	E04M1	1-02							138
D IN		1					5-2/8		138
D INT A	D04N1	1-01			1				139
D INT A	F04U1	1-02							139
D INT A		1					8-2/8		139
D INT B	C04J1	1-01			1				140
D INT B	F04K2	1-02							140
D INT B		1					10-4/8		140
D INT ENB A	D04M1	1-01			1				141
D INT ENB A	F04V1	1-02							141
D INT ENB A		1					8-4/8		141
D INT ENB B	C04L1	1-01			1				142
D INT ENB B	F04H2	1-02							142
D INT ENB B		1					10-0/8		142
D OUT HIGH	D04K1	1-01			1				143
D OUT HIGH	E04M2	1-02							143
D OUT HIGH		1					5-2/8		143

DD11-C,P0 RUN NAME	HND200.V23(23) 05/24/74 A/P PIN ORDER BAY - NAME PIN ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	12-MAR-75 LENGTH	8143 EXCEPTIONS	PAGE 21 RUN NUMBER
D OUT LOW	D04D1	1-01			1				144
D OUT LOW	E04N1	1-02							144
D OUT LOW		1					5-6/8		144
D SEL 0	D04F1	1-01			1				145
D SEL 0	E04S2	1-02							145
D SEL 0		1					6-0/8		145
D SEL 4	D04E1	1-01			1				146
D SEL 4	E04R2	1-02							146
D SEL 4		1					6-2/8		146
D SEL 6	D04C1	1-01			1				147
D SEL 6	E04S1	1-02							147
D SEL 6		1					6-2/8		147
D SER 2	D04J1	1-01			1				148
D SER 2	E04T2	1-02							148
D SER 2		1					6-0/8		148
D SSYN IN H	D04V1	1-01			1				149
D SSYN IN H	E04B1	1-02							149
D SSYN IN H		1					2-6/8		149
DC L	E01F2	1-01 *	H		2				150
DC L	E02F2	1-02 *			1			HAND WIRE TO HERE	150
DC L	C01N1	1-03 *	H		2			HAND WIRE	150
DC L	C02N1	1-04 *	H		1			HAND WIRE	150
DC L	C03N1	1-05 *	H		2			HAND WIRE	150
DC L	C04N1	1-06 *			1			TO HERE	150
DC L	B03F2	1-07 *	H		2			HAND WIRE	150
DC L	B04F2	1-08 *						TO HERE	150
DC L		1					25-4/8		150
F01D2	F01D2	1-01			2				151
F01D2	F01R2	1-02			1				151
F01D2	F01N1	1-03							151
F01D2		1					6-2/8		151
F01E1	F01E1	1-01			1				152
F01E1	F01V2	1-02							152
F01E1		1					4-2/8		152
F01L2	F01L2	1-01			1				153
F01L2	F01R1	1-02							153
F01L2		1					3-0/8		153

DD11-C,P0 RUN NAME	HND288,V23(23) 05/24/74				Q	DRAW	RV	PG	Y	X	Z	REMARKS	12-MAR-75 LENGTH	8143 EXCEPTIONS	PAGE 22 RUN NUMBER
A/P	PIN NAME	ORDER PIN	BAY - ORDER												
F01M2	F01M2		1-01								1				154
F01M2	F01S1		1-02												154
F01M2			1										3-0/8		154
F01P2	F01P2		1-01								1				155
F01P2	F01S2		1-02												155
F01P2			1										2-4/8		155
F02D2	F02D2		1-01								2				156
F02D2	F02R2		1-02								1				156
F02D2	F02N1		1-03												156
F02D2			1										6-2/8		156
F02E1	F02F1		1-01								1				157
F02E1	F02V2		1-02												157
F02E1			1										4-2/8		157
F02L2	F02L2		1-01								1				158
F02L2	F02R1		1-02												158
F02L2			1										3-0/8		158
F02M2	F02M2		1-01								1				159
F02M2	F02S1		1-02												159
F02M2			1										3-0/8		159
F02P2	F02P2		1-01								1				160
F02P2	F02S2		1-02												160
F02P2			1										2-4/8		160
F03D2	F03D2		1-01								2				161
F03D2	F03R2		1-02								1				161
F03D2	F03N1		1-03												161
F03D2			1										6-2/8		161
F03F1	F03E1		1-01								1				162
F03F1	F03V2		1-02												162
F03F1			1										4-2/8		162
F03L2	F03L2		1-01								1				163
F03L2	F03R1		1-02												163
F03L2			1										3-0/8		163
F03M2	F03M2		1-01								1				164
F03M2	F03S1		1-02												164
F03M2			1										3-0/8		164

DD11-C,P0 RUN NAME	HND290,V23(23) 05/24/74				Q	DRAW	RV	PG	Y	X	Z	REMARKS	12-MAR-75 LENGTH	8143 EXCEPTIONS	PAGE 23 RUN NUMBER
A/P	PIN NAME	ORDER PIN	BAY - ORDER												
F03P2	F03P2		1-01								1				165
F03P2	F03S2		1-02												165
F03P2			1										2-4/8		165
F04D2	F04D2		1-01								2				166
F04D2	F04R2		1-02								1				166
F04D2	F04N1		1-03												166
F04D2			1										6-2/8		166
F04E1	F04E1		1-01								1				167
F04E1	F04V2		1-02												167
F04E1			1										4-2/8		167
F04L2	F04L2		1-01								1				168
F04L2	F04R1		1-02												168
F04L2			1										3-0/8		168
F04M2	F04M2		1-01								1				169
F04M2	F04S1		1-02												169
F04M2			1										3-0/8		169
F04P2	F04P2		1-01								1				170
F04P2	F04S2		1-02												170
F04P2			1										2-4/8		170
GND (01)	A01C2		1-01	H							2		P	H TO WHERE	171
GND (01)	A02C2		1-02	H							1		P	H TO WHERE	171
GND (01)	A03C2		1-03	H							2		P	H TO WHERE	171
GND (01)	A04C2		1-04	H							1		P	H TO WHERE	171
GND (01)	A04T1		1-05	H							2		P	H TO WHERE	171
GND (01)	A03T1		1-06	H							1		P	H TO WHERE	171
GND (01)	A02T1		1-07	H							2		P	H TO WHERE	171
GND (01)	A01T1		1-08											TO HERE	171
GND (01)			1										20-4/8		171
GND (02)	B01C2		1-01	H							2		P	H TO WHERE	172
GND (02)	B02C2		1-02	H							1		P	H TO WHERE	172
GND (02)	B03C2		1-03	H							2		P	H TO WHERE	172
GND (02)	B04C2		1-04	H							1		P	H TO WHERE	172
GND (02)	B04T1		1-05	H							2		P	H TO WHERE	172
GND (02)	B03T1		1-06	H							1		P	H TO WHERE	172
GND (02)	B02T1		1-07	H							2		P	H TO WHERE	172
GND (02)	B01T1		1-08											TO HERE	172
GND (02)			1										20-4/8		172

DD11-C.P0 RUN NAME	HND288,V23(23) 05/24/74 A/P PIN ORDER BAY - Q DRAW RV PG Y X Z REMARKS	12-MAR-75 LENGTH	8143 EXCEPTIONS	PAGE 26 RUN NUMBER
INIT L	A01A1 1-01 * H		HAND WIRE	185
INIT L	A02A1 1-02 *		TO HERE	185
INIT L	D01L1 1-03 * H		HAND WIRE	185
INIT L	D02L1 1-04 * H		HAND WIRE	185
INIT L	D03L1 1-05 * H		HAND WIRE	185
INIT L	D04L1 1-06 *		TO HERE	185
INIT L	A03A1 1-07 * H		HAND WIRE	185
INIT L	A04A1 1-08 *		TO HERE	185
INIT L	1	37-2/8		185
INT SSYN	B02E1 1-01 H		H TO WHERE	186
INT SSYN	E03E1 1-02		TO HERE	186
INT SSYN	1	2-6/8		186
INTR L	A01B1 1-01 * H		HAND WIRE	187
INTR L	A02B1 1-02 *		TO HERE	187
INTR L	F01M1 1-03 * H		HAND WIRE	187
INTR L	F02M1 1-04 * H		HAND WIRE	187
INTR L	F03M1 1-05 * H		HAND WIRE	187
INTR L	F04M1 1-06 *		TO HERE	187
INTR L	A03B1 1-07 * H		HAND WIRE	187
INTR L	A04B1 1-08 *		TO HERE	187
INTR L	1	47-6/8		187
LTC	C01D1 1-01 H		H TO WHERE	188
LTC	C02D1 1-02 H		H TO WHERE	188
LTC	C03D1 1-03 H		H TO WHERE	188
LTC	C04D1 1-04		TO HERE	188
LTC	1	8-2/8		188
MSYN I	B01V1 1-01 *			189
MSYN L	E02V1 1-02 *			189
MSYN L	F01E1 1-03 * H			189
MSYN L	E02E1 1-04 * H		HAND WIRE	189
MSYN L	F03E1 1-05 * H		HAND WIRE	189
MSYN L	E04E1 1-06 *		TO HERE	189
MSYN L	B03V1 1-07 *			189
MSYN L	B04V1 1-08 *			189
MSYN L	1	31-2/8		189

DD11-C,P0													HND200,V23(23) 05/24/74													12-MAR-75	8:43	PAGE 27			
RUN NAME													A/F	PIN	ORDER	BAY -	Q	DRAW	RV	PG	Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN				
														NAME	PIN	ORDER												NUMBER			
NPG L														A01U1		1-01 *														190	
NPG L														C01A1		1-02 *														190	
NPG L														C01E1		1-03 *	H								P		HAND WIRE		190		
NPG L														C02A1		1-04 *													190		
NPG L														C02E1		1-05 *	H								P		HAND WIRE		190		
NPG L														C03A1		1-06 *													190		
NPG L														C03B1		1-07 *	H								P		HAND WIRE		190		
NPG L														C04A1		1-08 *													190		
NPG L														C04B1		1-09 *													190		
NPG I														A04U1		1-10 *														190	
NPG L																1														190	
																															29-4/8
NPR L														A01S2		1-01 *														191	
NPR L														A02S2		1-02 *														191	
NPR L														F01J1		1-03 *	H								P		HAND WIRE		191		
NPR L														F02J1		1-04 *	H								P		HAND WIRE		191		
NPR L														F03J1		1-05 *	H								P		HAND WIRE		191		
NPR L														F04J1		1-06 *													191		
NPR L														A03S2		1-07 *	H								P		HAND WIRE		191		
NPR L														A04S2		1-08 *													191		
NPR L																1														191	
																															43-6/8
PA L														A01M1		1-01 *	H									P		HAND WIRE		192	
PA L														A02M1		1-02 *															192
PA L														C01C1		1-03 *	H								P		HAND WIRE		192		
PA L														C02C1		1-04 *														192	
PA L														C03C1		1-05 *														192	
PA L														C04C1		1-06 *														192	
PA L														A03M1		1-07 *														192	
PA L														A04M1		1-08 *														192	
PA I,																1														192	
																															27-2/8
PAR DET														R02E2		1-01	H														193
PAR DET														R03E2		1-02															193
PAR DET																1															193
																															2-6/8
PAR P0														A02P1		1-01	H										P		H TO WHERE		194
PAR P0														A03P1		1-02															194
PAR P0																1															194
																															2-6/8
PAR P1														A02N1		1-01	H										P		H TO WHERE		195
PAR P1														A03N1		1-02															195
PAR P1																1															195
																															2-6/8

DD11-C,PM		HND288.V23(23) 05/24/74				12-MAR-75		8:43		PAGE 28		
PUN NAME	A/P	PIN NAME	ORDER PIN	RAY - ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN NUMBER
PR L		A01N2		1-01 *	H			2		P	HAND WIRE	196
PR L		A02N2		1-02 *				1			TO HERE	196
PR L		C01S1		1-03 *	H			2		P	HAND WIRE	196
PR L		C02S1		1-04 *	H			1		P	HAND WIRE	196
PR L		C03S1		1-05 *	H			2		P	HAND WIRE	196
PR L		C04S1		1-06 *				1			TO HERE	196
PR L		A03N2		1-07 *	H			2		P	HAND WIRE	196
PR L		A04N2		1-08 *							TO HERE	196
PR L				1							30-0/8	196
RESERVE BUS		R02A1		1-01	H			1		P	H TO WHERE	197
RESERVE BUS		R03A1		1-02							TO HERE	197
RESERVE BUS				1							2-6/8	197
SACK L		A01R2		1-01 *	H			2		P	HAND WIRE	198
SACK L		A02R2		1-02 *				1			TO HERE	198
SACK L		F01T2		1-03 *	H			2		P	HAND WIRE	198
SACK L		F02T2		1-04 *	H			1		P	HAND WIRE	198
SACK L		F03T2		1-05 *	H			2		P	HAND WIRE	198
SACK L		F04T2		1-06 *				1			TO HERE	198
SACK L		A03R2		1-07 *	H			2		P	HAND WIRE	198
SACK L		A04R2		1-08 *							TO HERE	198
SACK L				1							45-6/8	198
SSYN L		F01C1		1-01 *	H			2		P	HAND WIRE	199
SSYN L		F02C1		1-02 *	H			1		P	HAND WIRE	199
SSYN L		F03C1		1-03 *	H			2		P	HAND WIRE	199
SSYN L		F04C1		1-04 *							TO HERE	199
SSYN L				1							8-2/8	199
SSYN L		E01U1		1-01 *	H			2		P	HAND WIRE	200
SSYN L		E02U1		1-02 *				1			TO HERE	200
SSYN L		E01J1		1-03 *	H			2		P	HAND WIRE	200
SSYN L		E02J1		1-04 *	H			1		P	HAND WIRE	200
SSYN L		E03J1		1-05 *	H			2		P	HAND WIRE	200
SSYN L		E04J1		1-06 *				1			TO HERE	200
SSYN L		E03U1		1-07 *	H			2		P	HAND WIRE	200
SSYN L		E04U1		1-08 *							TO HERE	200
SSYN L				1							32-2/8	200
SSYN L JMP		F02J1		1-01				1				201
SSYN L JMP		F02C1		1-02								201
SSYN L JMP				1							4-4/8	201

BLANK